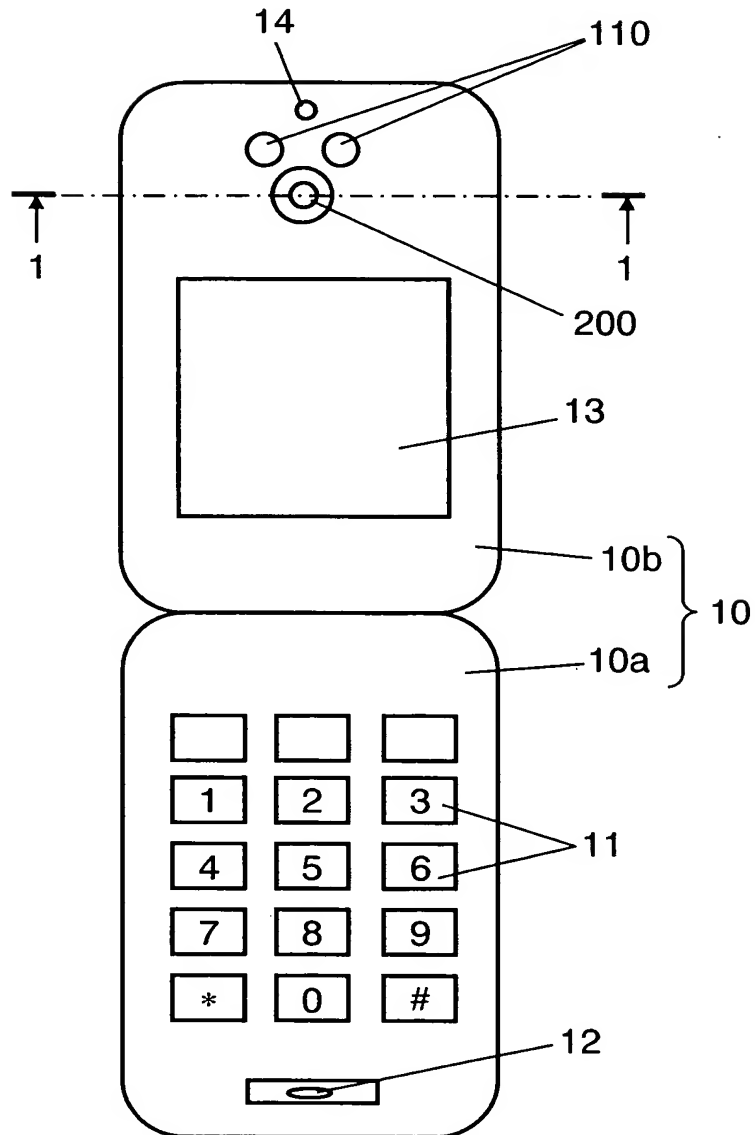


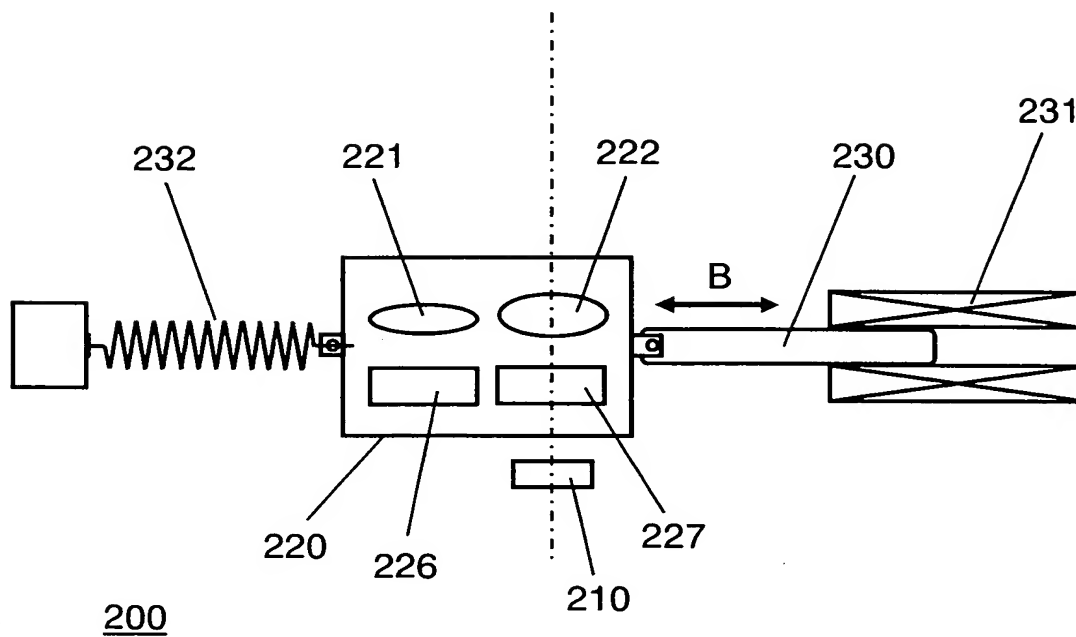
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FIG. 1



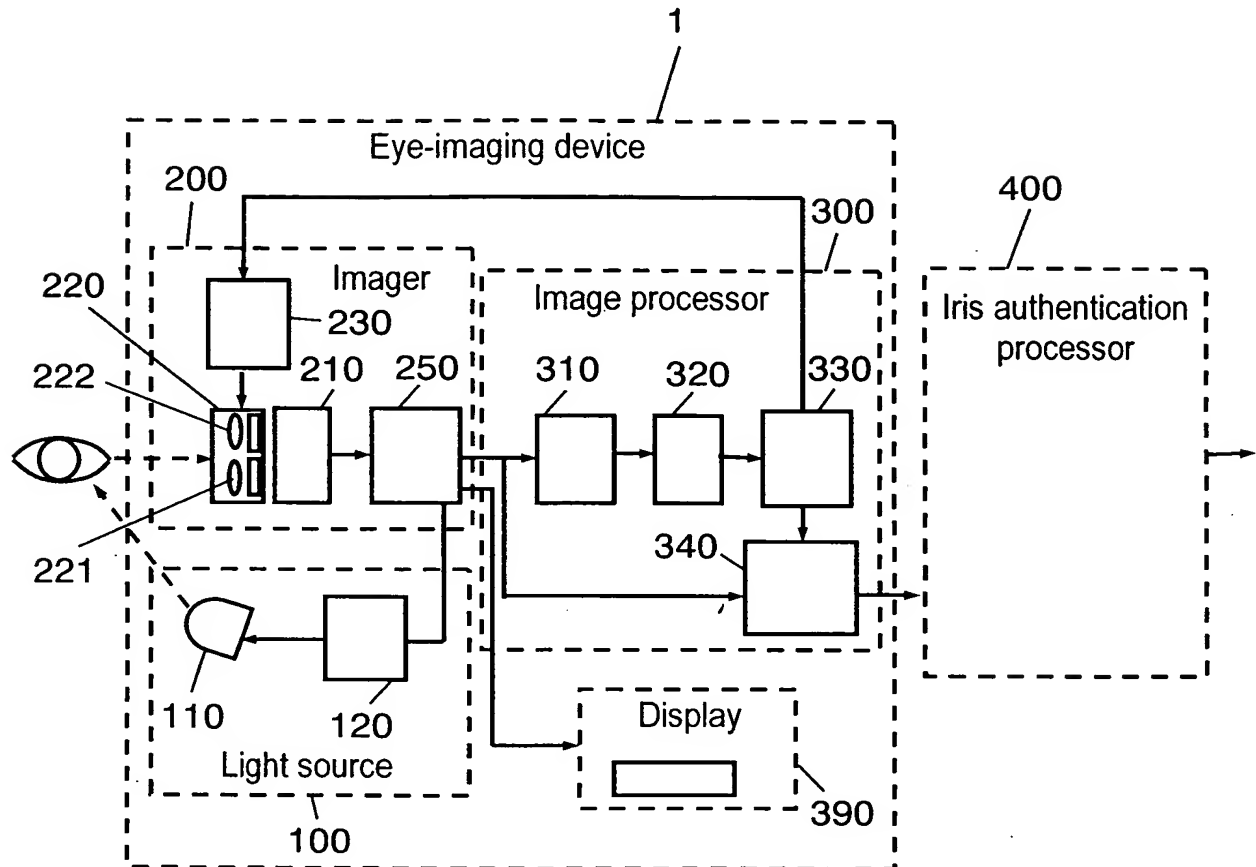
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FIG. 2



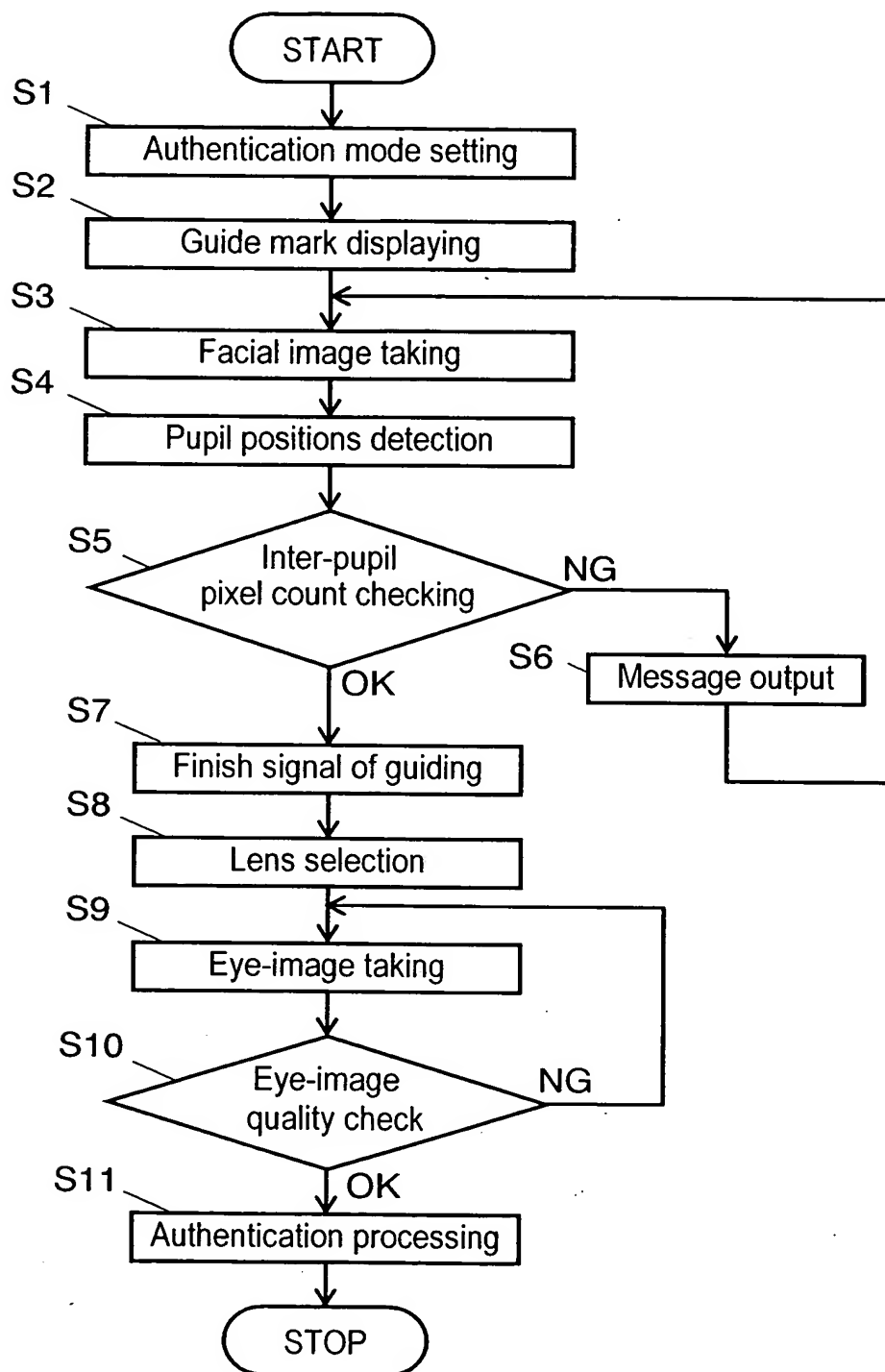
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FIG. 3



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FIG. 4



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FIG. 5

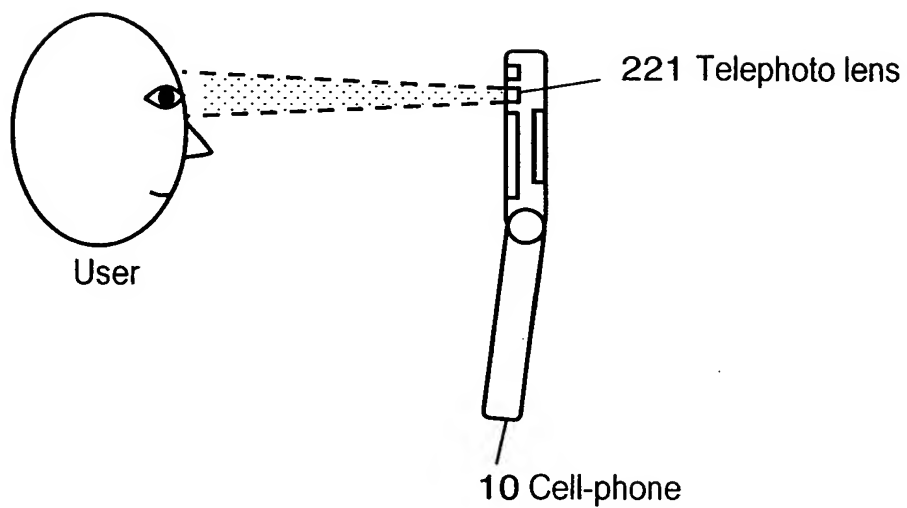
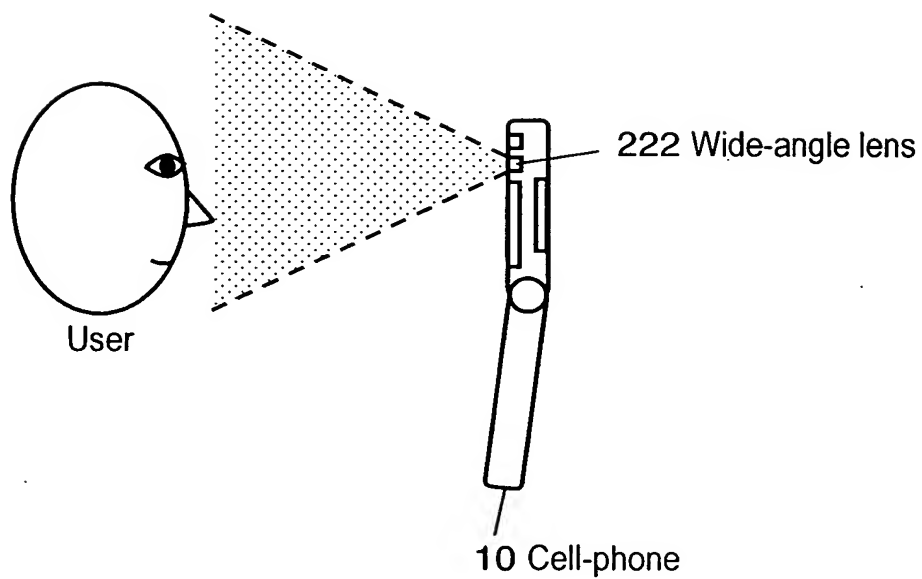
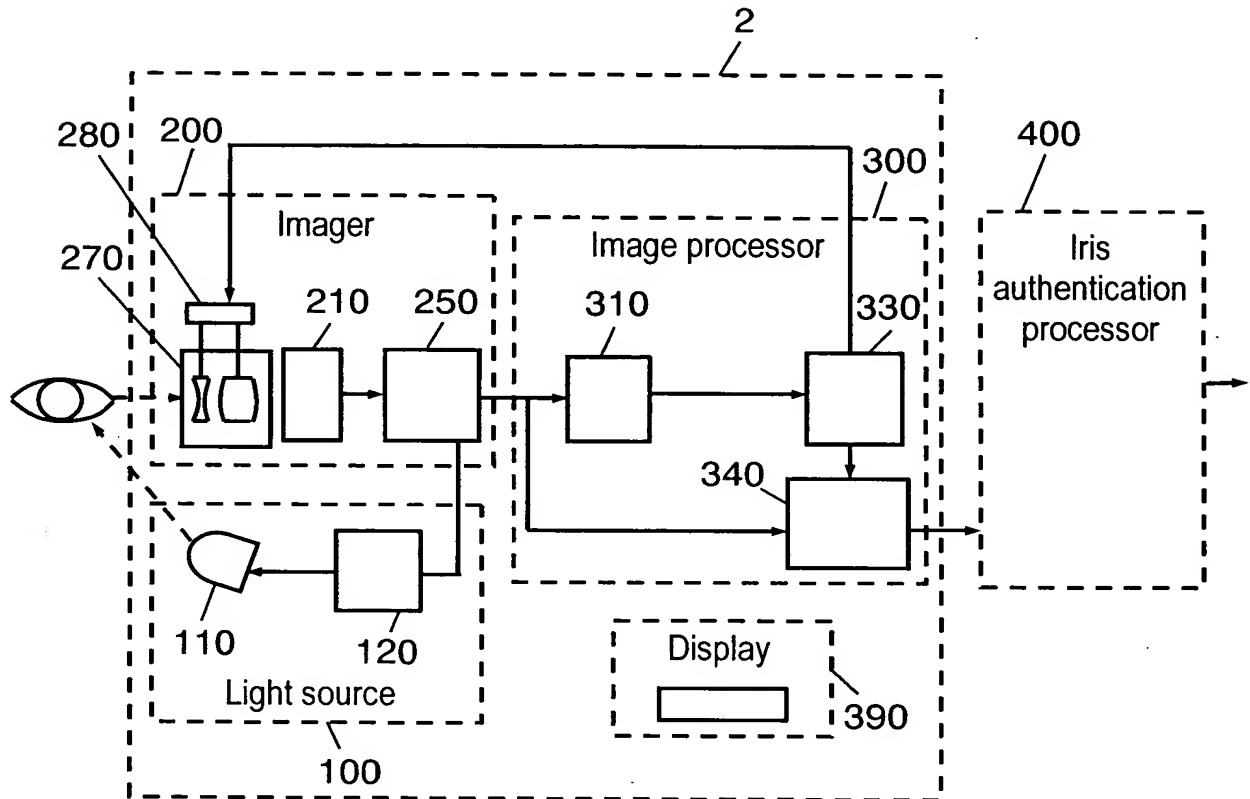


FIG. 6



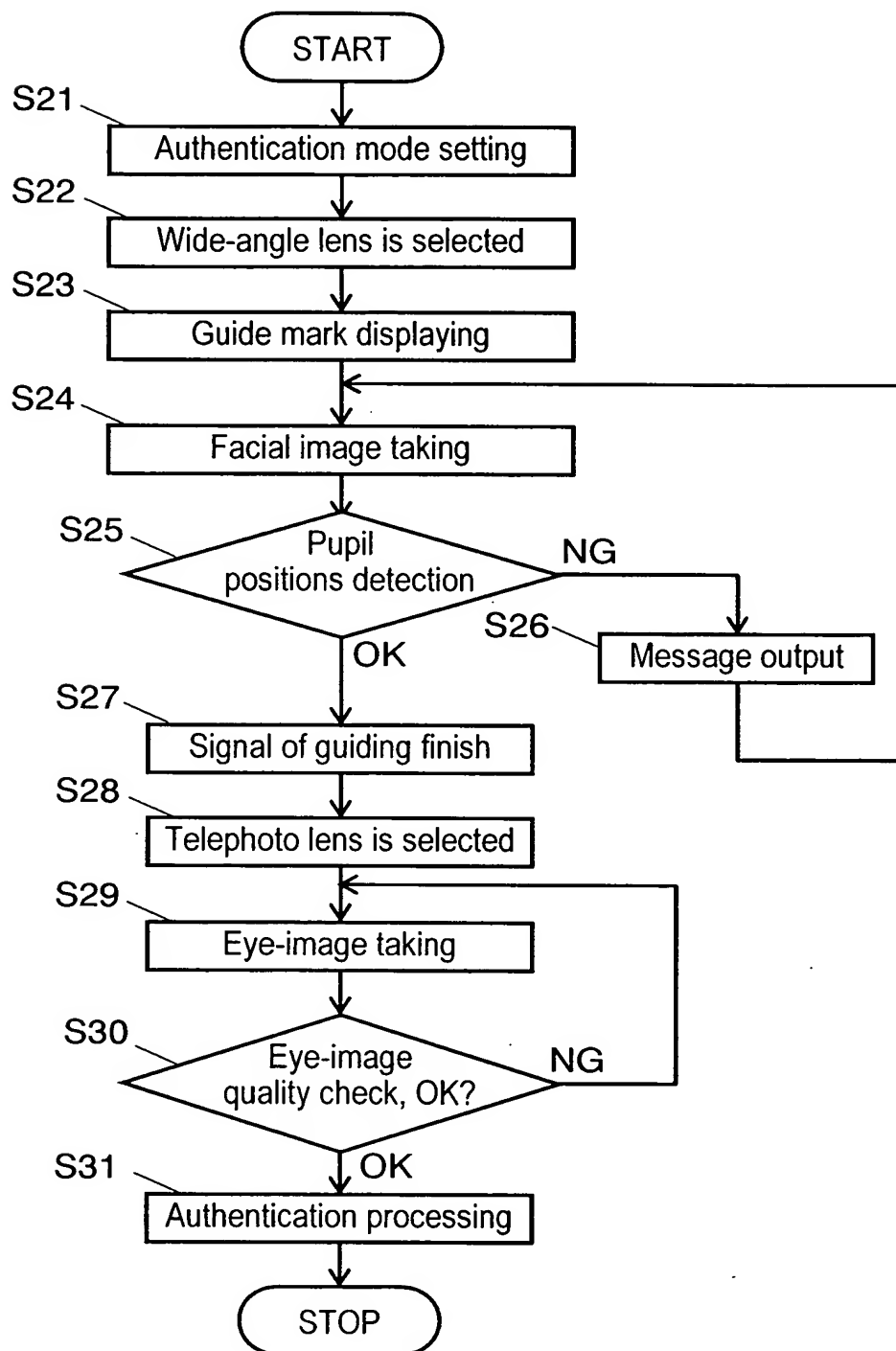
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FIG. 7



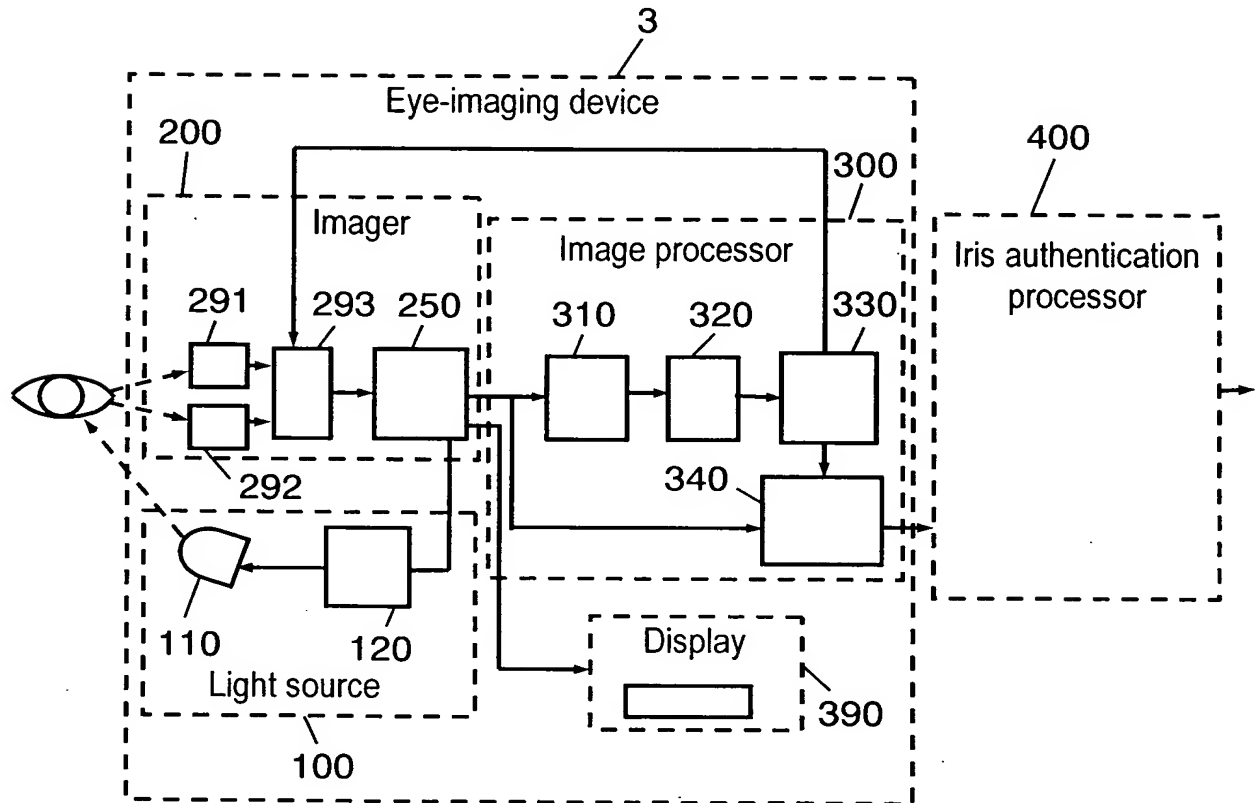
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FIG. 8



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FIG. 9





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Reference numerals in the drawings

- 1, 2, 3 Eye-imaging device
- 10 Cell-phone
- 100 Light source
- 110 LED
- 120 Light control
- 200 Imager
- 210 Imaging element
- 220 Optical system
- 221 Telephoto lens
- 222 Wide-angle lens
- 226 Visible light protection filter
- 227 Infrared protection filter
- 230 Lens selector
- 250 Preprocessor
- 270 Optical system
- 280 Zoom lens driver
- 291 Telephoto camera
- 292 Wide-angle camera
- 293 Camera selector
- 300 Image processor
- 310 Pupil detector
- 320 Inter-pupil pixel count checker
- 330 Guide checker
- 340 Authentication image storage
- 390 Display
- 400 Iris authentication processor